61 PE		PTOR BINDING HETEROCYCLIC R, et al. 4 Sheet 1 of 54	1/54	
JUN 3 0 2003	Observed (M+H)⁺	509.4	535.4	703.2
	Formula	C ₃₂ H ₃₆ N ₄ O ₂	C ₃₃ H ₃₈ N ₆ O	C41H46N6O3S
	Structures	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	F. O Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	
	AMD#	7129	7130	7131

Figure 1 A

ation No.: 09/535,3 t No.: 39144200370	EPTOR BINDING HETER(ER, et al. 14 0 Sheet 2 of 54			
-		2/54		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	639.6 (+NH ₄)	479.4	488.1	474.3
·	C ₃₆ H ₃₇ CIN ₆ O ₂	C ₃₁ H ₃₄ N ₄ O	C ₃₂ H ₃₃ N ₅	C31H31N5
Z		TZ Z OH	Z Z Z	
	7136	7138	7140	7141

Figure 1 B

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314

Docket No.: 391442003700 Sheet 3 of 54





AMD#	Structures	Formula	Observed (M+H)⁺
	= z		
	£ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3	7.905.7
7142		93.135.2	
7. 7. A.E.		C ₂ ,H ₈ N ₄ O	929
	N-CHN-	-	
7147	TI Z	C ₂₄ H ₂₉ N ₅ O	404.6
7151		C ₃₈ H ₄₀ N ₄ O	569.4

Figure 1 C

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 4 of 54



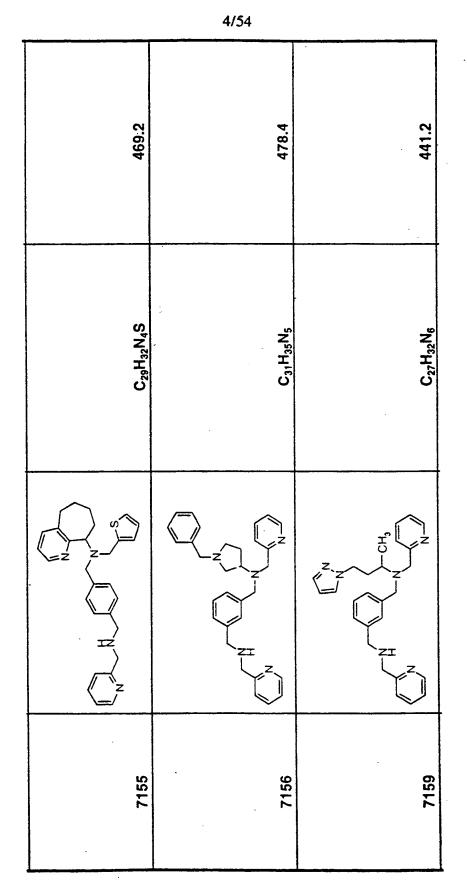


Figure 1 D

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 209/535,314 Docket No.: 391442003700 Sheet 5 of 54



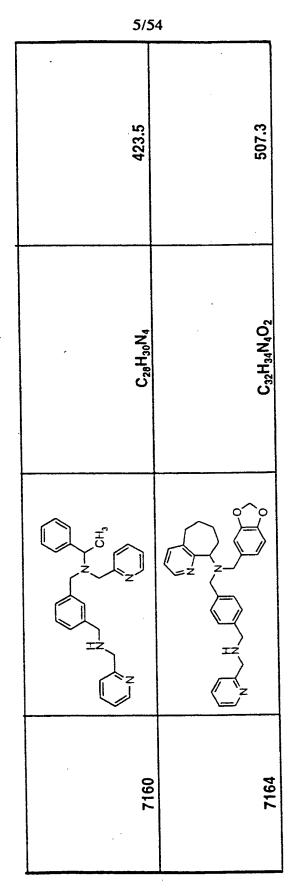


Figure 1 E

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 6 of 54

	6/54		· · · · · · · · · · · · · · · · · · ·
Observed (M+H) ⁺	550.2	493.5	464.4
Formula	C ₃₄ H ₃₉ N ₅ O ₂	C31H32N4O2	C ₃₀ H ₃₃ N ₅
Structures	ZI Z O J E		Z- Z- IZ
AMD#	7166	7167	7168

Figure 1 F

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 7 of 54





494.6	559.5	521.4
C ₃₁ H ₃₅ N ₅ O	C ₃₅ H ₃₈ N ₆ O	C34H40N4O
CH ₃ O _C H ₃ O	TZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	N N N N N N N N N N N N N N N N N N N
7169	7171	7172

Figure 1 G



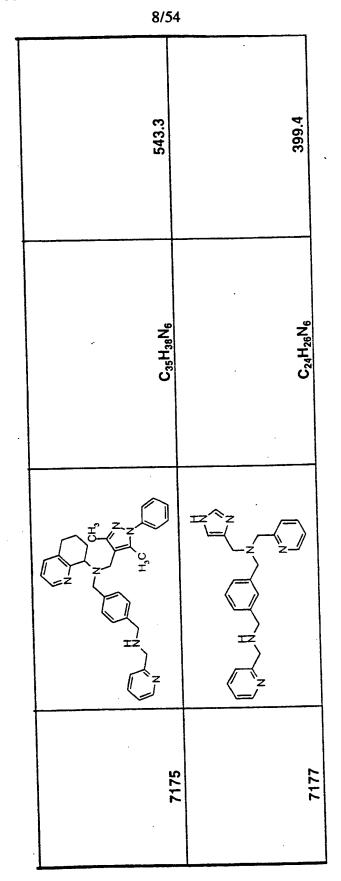


Figure 1 H

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Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS
-Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 9 of 54

			9/54	
JUN 3 0 2003	Observed (M+H)	537.3	488.4	474.3
	Formula	C33H36N4O3	C ₃₂ H ₃₃ N ₅	C ₃₁ H ₃₁ N ₅
	Structures	H C N N N N N N N N N N N N N N N N N N		=Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	AMD#	7180	7182	7184

Figure 1 I

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 10 of 54 10/54 JUN 3 0 2003 497.4 485.4 7185 7188

Figure 1 J

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 11 of 54

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TECH CENTER 1600/2900



		11/54	12011 ==1
Observed (M+H)⁺	529.2	515.4	521.4
Formula	C ₃₂ H ₃₄ F ₂ N ₄ O	C31H32F2N4O	. C ₃₃ H ₃₆ N ₄ O ₂
Structures	TZ Z	N N N N N N N N N N N N N N N N N N N	
AMD#	7189	7195	7196

Figure 1 K

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700 Sheet 12 of 54



		12/54	
	535.6	7.03.2	
	$C_{33}H_{36}N_6O$	CA,H,6N,O,S	0 0
\	ZI ZI ZI ZI ZI	TZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	
	7197	7198	

Figure 1 L

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 13 of 54



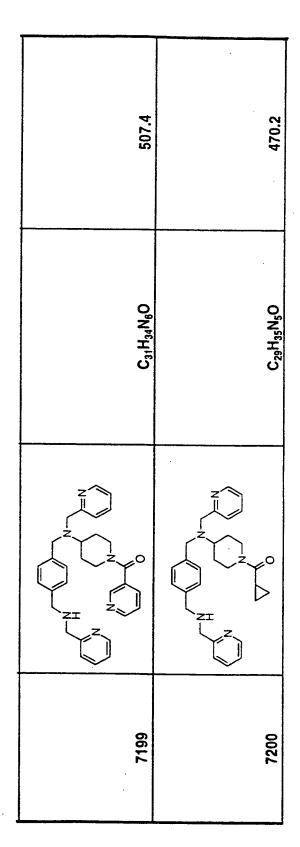


Figure 1 M

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 14 of 54



		14/54	
Observed (M+H) ⁺	546.2	507.6	621.4
Formula	C ₃₅ H ₃₉ N ₅ O	C32H34N4O2	C ₃₆ H ₃₇ CIN ₆ O ₂
Structures	Z Z O		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
AMD#	7201	7202	7203

Figure 1 N

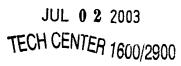
Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS
- Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 15 of 54



	15/54	
553.2	485.4	452.3
C ₃₂ H ₃₆ N ₆ OS	C ₃₀ H ₃₀ F ₂ N ₄	C ₂₉ H ₃₃ N ₅
Z N N N N N N N N N N N N N N N N N N N		N N N N N N N N N N N N N N N N N N N
7204	7207	7208

Figure 1 O

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 16 of 54



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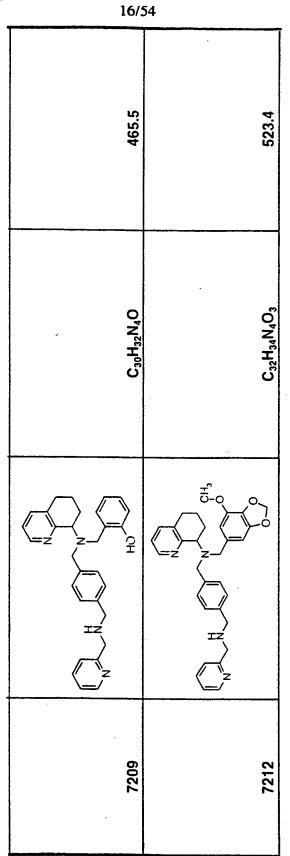


Figure 1 P

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 17 of 54



		17/54	
Observed (M+H) ⁺	450.2	486.4	458.3
Formula	C ₂₉ H ₃₁ N ₅	C ₃₀ H ₃₉ N ₅ O	C ₂₉ H ₃₉ N ₅
Structures		N H N N	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
AMD#	7216	7217	7220

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 18 of 54

18/54



	18/54	<u> </u>
503.3	478.4	522.5
C ₃₂ H ₃₄ N ₆	C ₃₁ H ₃₅ N ₅	C ₃₃ H ₃₉ N ₅ O
TZ Z		
7222	7223	7228

Figure 1 R

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS
- Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 19 of 54



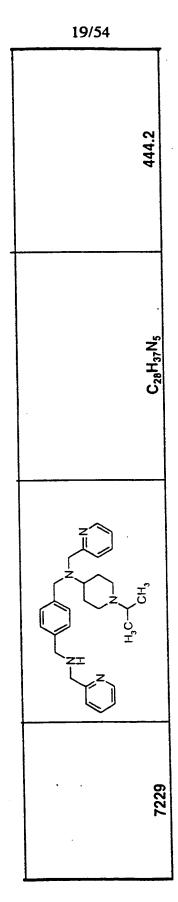


Figure 1 S

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Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN

Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314

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	20/34		
Observed (M+H),	514.4	481.4	460.4
Formula		C ₃₀ H ₃₆ N ₆	C ₂₈ H ₃₇ N ₅ O
Structures	IZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Z-Z Z-Z Z-Z Z-Z	H ₃ C CH ₃
AMD#	7230	7231	

Figure 1 T

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.

Application No.: 09/535,314

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541.4	527.3	554.4	544.4
C ₃₂ H ₃₆ N ₄ O ₂ S	C ₃₁ H ₃₁ CIN ₄ O ₂	C ₃₃ H ₃₆ CIN ₅ O	C ₃₅ H ₃₇ N ₅ O
TZ Z C C C C C C C C C C C C C C C C C C		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	N N N N N N N N N N N N N N N N N N N
7236	7238		7241

Figure 1 U

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al.

Application No.: 09/535,314

Docket No.: 391442003700 Sheet 22 of 54



		22/34	·
Observed (M+H) ⁺	599.7	500.3	530.3
Formula	C ₃₉ H ₄₂ N ₄ O ₂	C33H33N5	C ₃₄ H ₃₅ N ₅ O
Structures	L CH ₂	Z= Z	TO T
AMD#	7242	7244	7245

Figure 1 V

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 23 of 54



	EZ		
7247		N.H.S.	
		6.167.157	
7249	S N	C ₃₃ H ₃₇ N ₅ O	520.7
	Z Z		
7250		C ₂₄ H ₂₆ N ₆	399.5

Figure 1 W

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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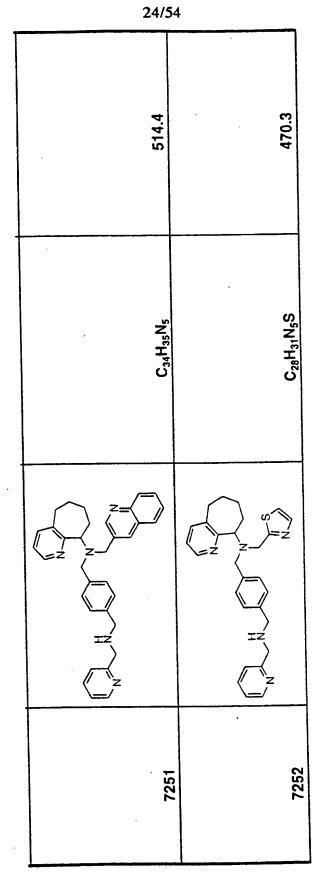


Figure 1 X

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS _Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700 Sheet 25 of 54



		25/54	
Observed (M+H) ⁺	464.6	554.4	466.4
Formula	C30H33N5	C36H35N5O	C30H35№
Structures	TZ ZZ	HN N N N	N N CH
AMD#	7253	7254	7256

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN

Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700

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413.6	502.4
C ₂₅ H ₂₈ N ₆	C ₃₃ H ₃₅ N ₅
H ₃ C N	N=-N N-N-CH ₃
7257	7259

Figure 1 Z

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.

Application No.: 09/535,314

Docket No.: 391442003700 Sheet 27 of 54





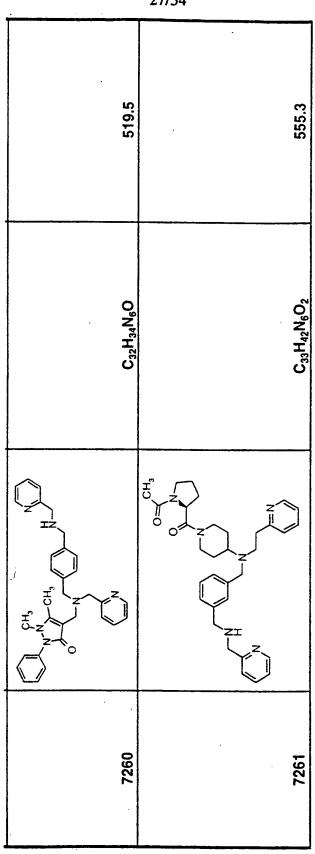


Figure 1 AA

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 28 of 54

JUN 3 0 2003

			·	
SE JOHN	Observed (M+H) ⁺	577.5	502.4	644.4
	Formula	C ₃₅ H ₄₀ N ₆ O ₂	C ₃₃ H ₃₅ N ₅	C ₃₉ H ₄₅ N ₇ O ₂
	Structures			
	AMD#	7262	7270	7272

Figure 1 BB

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 29 of 54



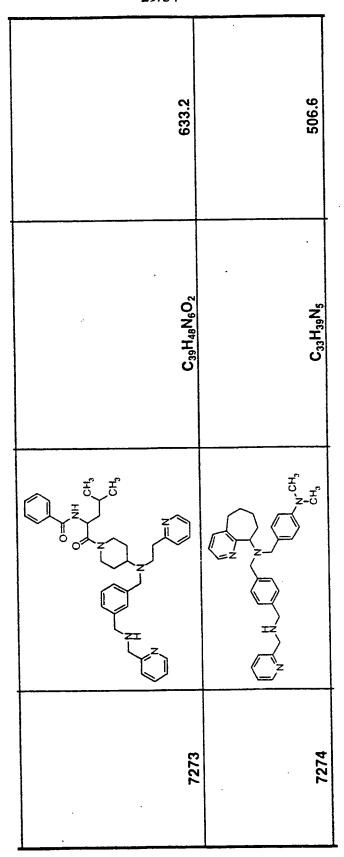
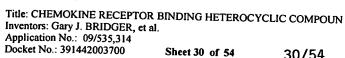


Figure 1 CC

30/54

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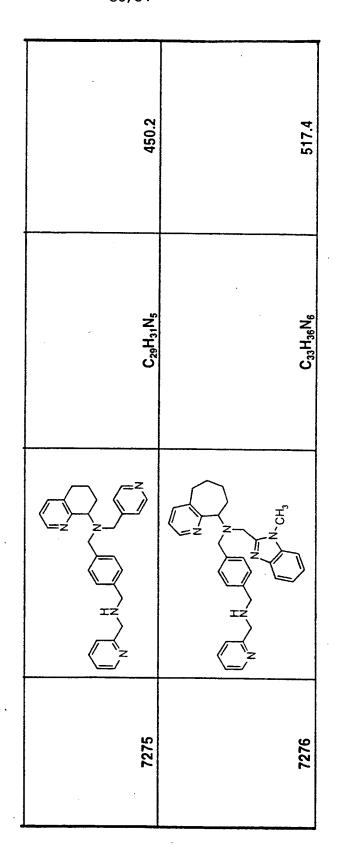


Figure 1 DD

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 31 of 54



		31/34	
Observed (M+H) ⁺	458.4	520.4	492.5
Formula	C ₂₉ H ₃₉ N ₅	C ₃₃ H ₃₇ N ₅ O	C ₃₂ H ₃₇ N ₅
Structures	CH ₃	N N N N N N N N N N N N N N N N N N N	
AMD#	7277	7278	7290

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN
Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
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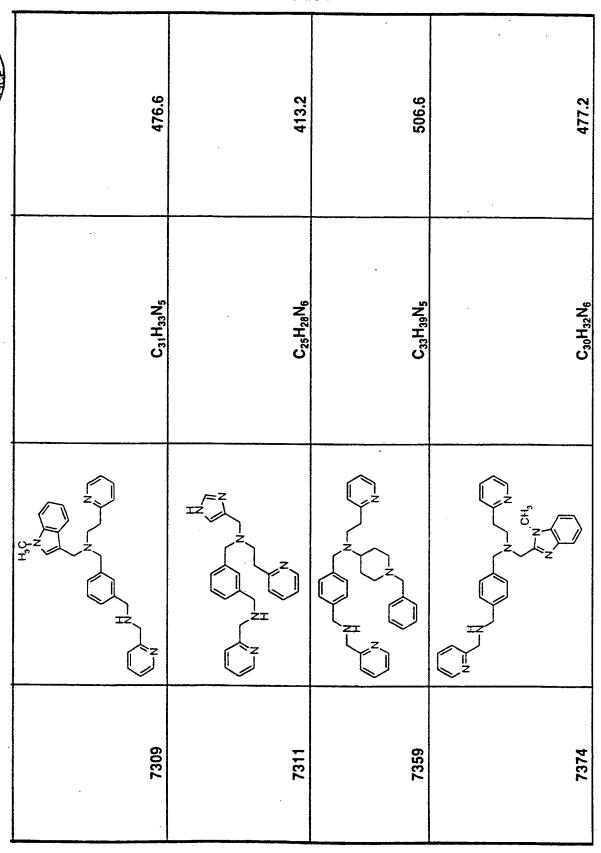


Figure 1 FF

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700 Sheet 33 of 54





		33/54	
Observed (M+H) ⁺	538.4	464.4	453
Formula	C ₃₆ H ₃₅ N ₅	C ₃₀ H ₃₃ N ₅	C ₂₈ H ₃₂ N ₆
Structures	Z	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	TIN NO TI
AMD#	7379	9025	9031

Figure 1 GG

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 34 of 54



	34/54	
479.4	507.6	493.2
C31H34N4O	C33H38N4O	C ₃₂ H ₃₆ N₄O
HA, C, O P, P,	H, C O N	Z O Z
9032	9039	9045

Figure 1 HH

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 35 of 54



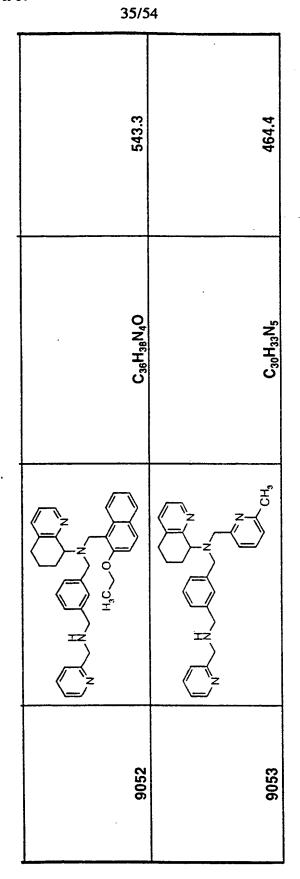


Figure 1 II

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 36 of 54



Figure 1 JJ

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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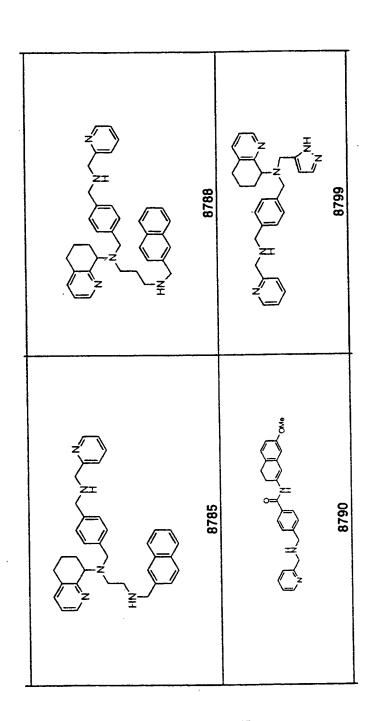


Figure 1 KK

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 38 of 54



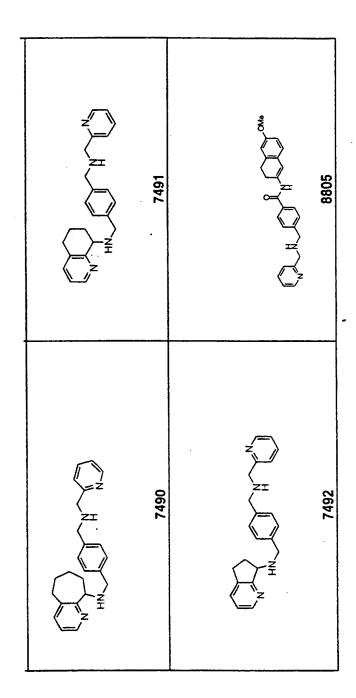


Figure 1 LL



Figure 1 MM

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al.

Application No.: 09/535,314

Docket No.: 391442003700 Sheet 40 of 54



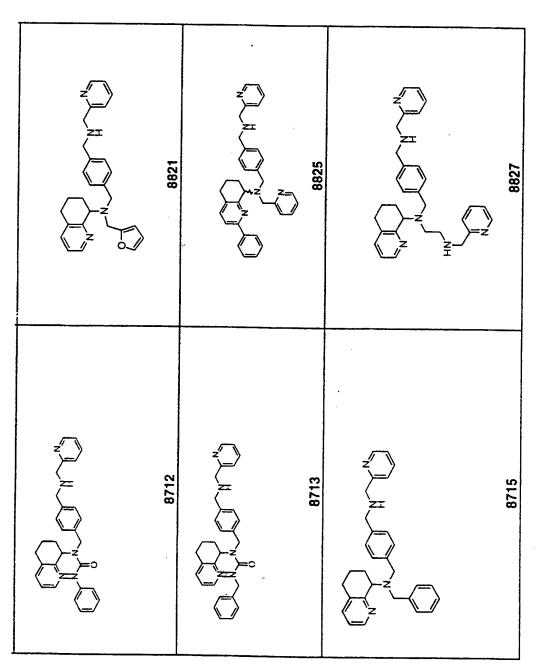


Figure 1 NN

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
Docket No.: 391442003700 Sheet 41 of 54



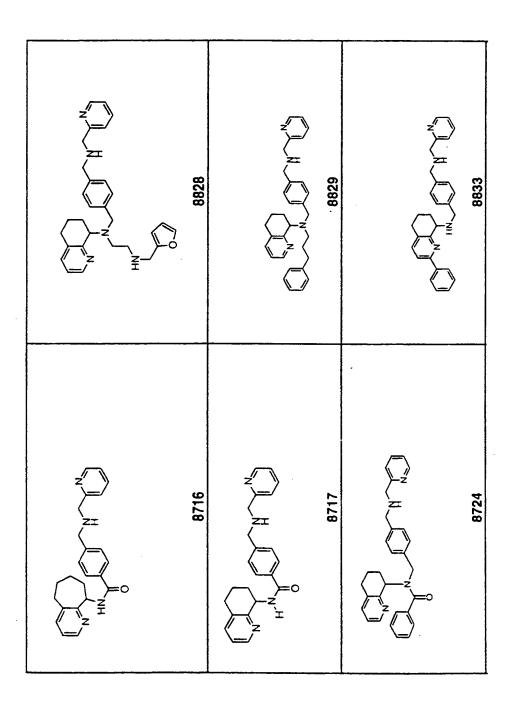


Figure 1 OO

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700 Sheet 42 of 54



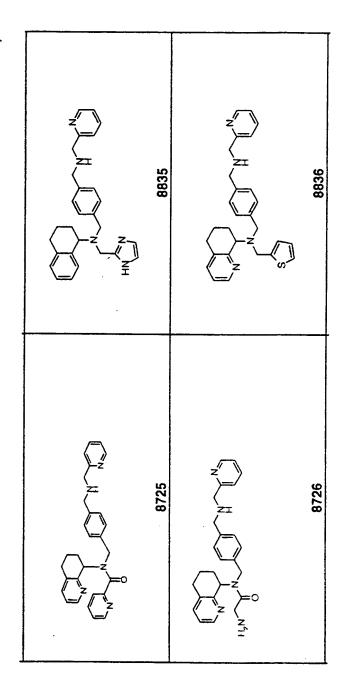


Figure 1 PP

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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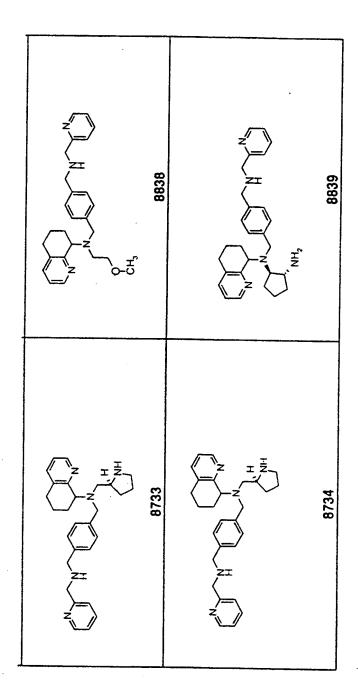


Figure 1 QQ

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
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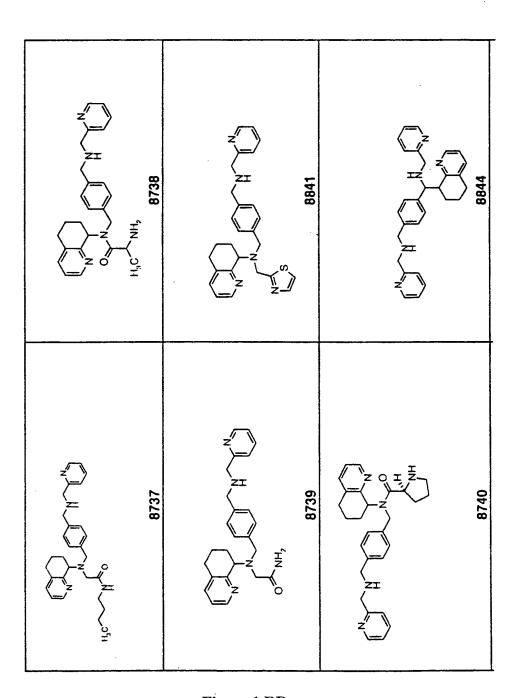


Figure 1 RR

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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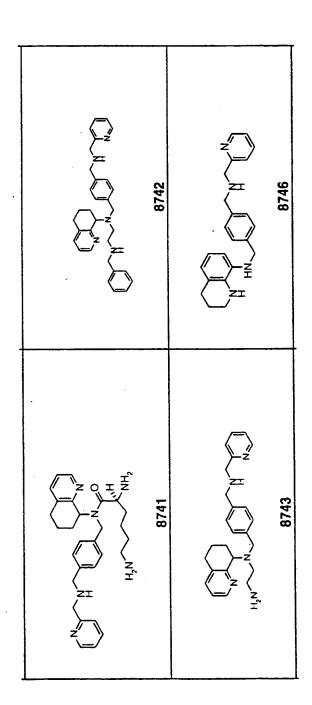


Figure 1 SS

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314 Docket No.: 391442003700 Sheet 46 of 54



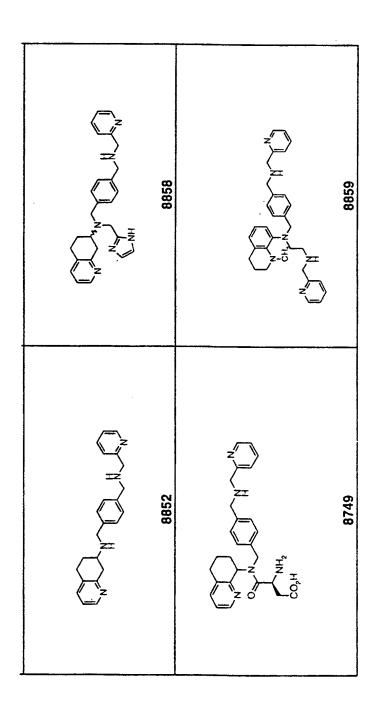


Figure 1 TT

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 47 of 54



Figure 1 UU

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
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Figure 1 VV

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Figure 1 WW

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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Figure 1 XX

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS Inventors: Gary J. BRIDGER, et al.

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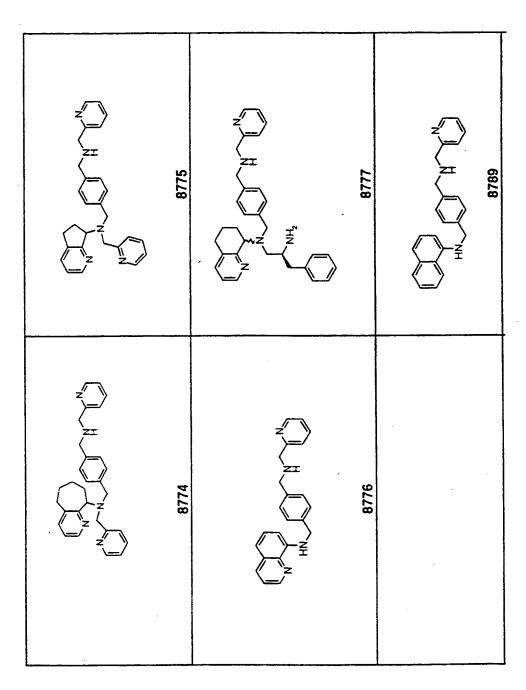


Figure 1 YY



Figure 1 ZZ

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUNDS
Inventors: Gary J. BRIDGER, et al.
Application No.: 09/535,314
Docket No.: 391442003700 Sheet 53 of 54

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Z	NH N	IN N	
3597	3602	3667	
ZI IZ ZI	N H N N N N N N N N N N N N N N N N N N	ZHN N H N	CH1, CH3, CH3,
8773	8665	7428	7485

Figure 1 AAA

Title: CHEMOKINE RECEPTOR BINDING HETEROCYCLIC COMPOUN Inventors: Gary J. BRIDGER, et al. Application No.: 09/535,314
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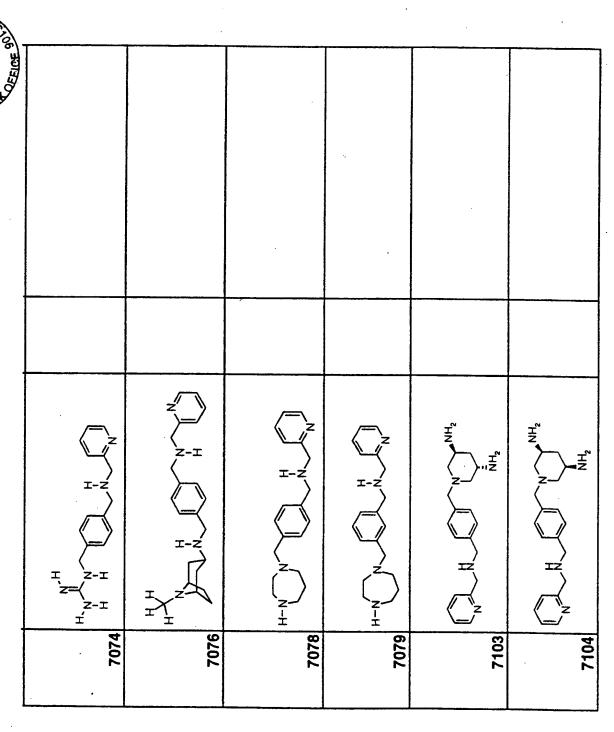


Figure 1 BBB